

Application No. 10/619,868  
Supplemental Amendment Dated March 10, 2005  
In response to Office Action Dated October 8, 2004

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MTC  
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**Listing of Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1. (Currently Amended) A level detector comprising:

a transparent housing;

a plurality of light emitting devices in the housing arranged along a direction which is substantially upright in use of the detector; and

a plurality of light receiving devices in the housing and also arranged along said direction, each light receiving device being operable to receive light via ~~respective~~first and second light paths from ~~at least two~~first and second adjacent light emitting devices if the light is internally reflected by the housing, which depends on the refractive index of the fluid surrounding the housing; and

a circuit coupled to the light emitting devices and the light receiving devices and arranged such that for each light receiving device, the circuit can determine whether recognize and differentiate between light is received via each of said light paths to each light receiving device via the first light path only, the second light path only, and both the first and second light paths;

whereby the extent of immersion of the level detector within a liquid can be determined by said circuit.

Claim 2. (Currently Amended) A level detector comprising:

a transparent housing;

a plurality of light emitting devices in the housing arranged along a direction which is substantially upright in use of the detector; and

a plurality of light receiving devices in the housing and also arranged along said direction, each light emitting device being operable to illuminate, via ~~respective~~first and second light paths, each of ~~at least two~~first and second adjacent light receiving devices if the light is internally reflected by the housing, which depends on the refractive index of the fluid surrounding the housing; and